

FIG. 1

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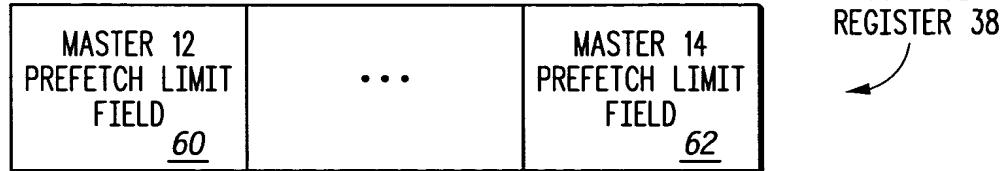


FIG. 2

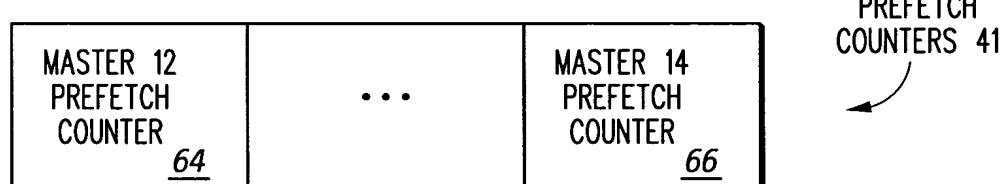


FIG. 3

NAME	DESCRIPTION	SETTINGS
PREFETCH LIMIT FIELDS 60 AND 62	THESE FIELDS CONTROL THE PREFETCH ALGORITHM USED BY THE PREFETCH CIRCUITRY. THESE FIELDS DEFINE A LIMIT ON THE MAXIMUM NUMBER OF SEQUENTIAL PREFETCHES WHICH WILL BE ATTEMPTED BETWEEN BUFFER MISSES FOR EACH CORRESPONDING MASTER	<p>000 - NO PREFETCHING IS PERFORMED</p> <p>001 - A SINGLE ADDITIONAL LINE (NEXT SEQUENTIAL) IS PREFETCHED ON A BUFFER MISS</p> <p>010 - UP TO TWO ADDITIONAL LINES MAY BE PREFETCHED FOLLOWING EACH BUFFER MISS BEFORE PREFETCHING IS HALTED. A SINGLE ADDITIONAL LINE (NEXT SEQUENTIAL) IS PREFETCHED ON A BUFFER MISS, AND THE NEXT SEQUENTIAL LINE IS PREFETCHED ON A BUFFER HIT (IF NOT ALREADY PRESENT)</p> <p>011 - UP TO THREE ADDITIONAL LINES MAY BE PREFETCHED FOLLOWING EACH BUFFER MISS BEFORE PREFETCHING IS HALTED. ONLY A SINGLE ADDITIONAL PREFETCH IS INITIATED AFTER EACH BUFFER HIT OR MISS</p> <p>100 - UP TO FOUR ADDITIONAL LINES MAY BE PREFETCHED FOLLOWING EACH BUFFER MISS BEFORE PREFETCHING IS HALTED. ONLY A SINGLE ADDITIONAL PREFETCH IS INITIATED AFTER EACH BUFFER HIT OR MISS</p> <p>101 - UP TO FIVE ADDITIONAL LINES MAY BE PREFETCHED FOLLOWING EACH BUFFER MISS BEFORE PREFETCHING IS HALTED. ONLY A SINGLE ADDITIONAL PREFETCH IS INITIATED AFTER EACH BUFFER HIT OR MISS</p> <p>110 - AN UNLIMITED NUMBER OF ADDITIONAL LINES MAY BE PREFETCHED FOLLOWING EACH BUFFER MISS. ONLY A SINGLE ADDITIONAL PREFETCH IS INITIATED AFTER EACH BUFFER HIT OR MISS</p> <p>111 - RESERVED</p>

FIG. 4

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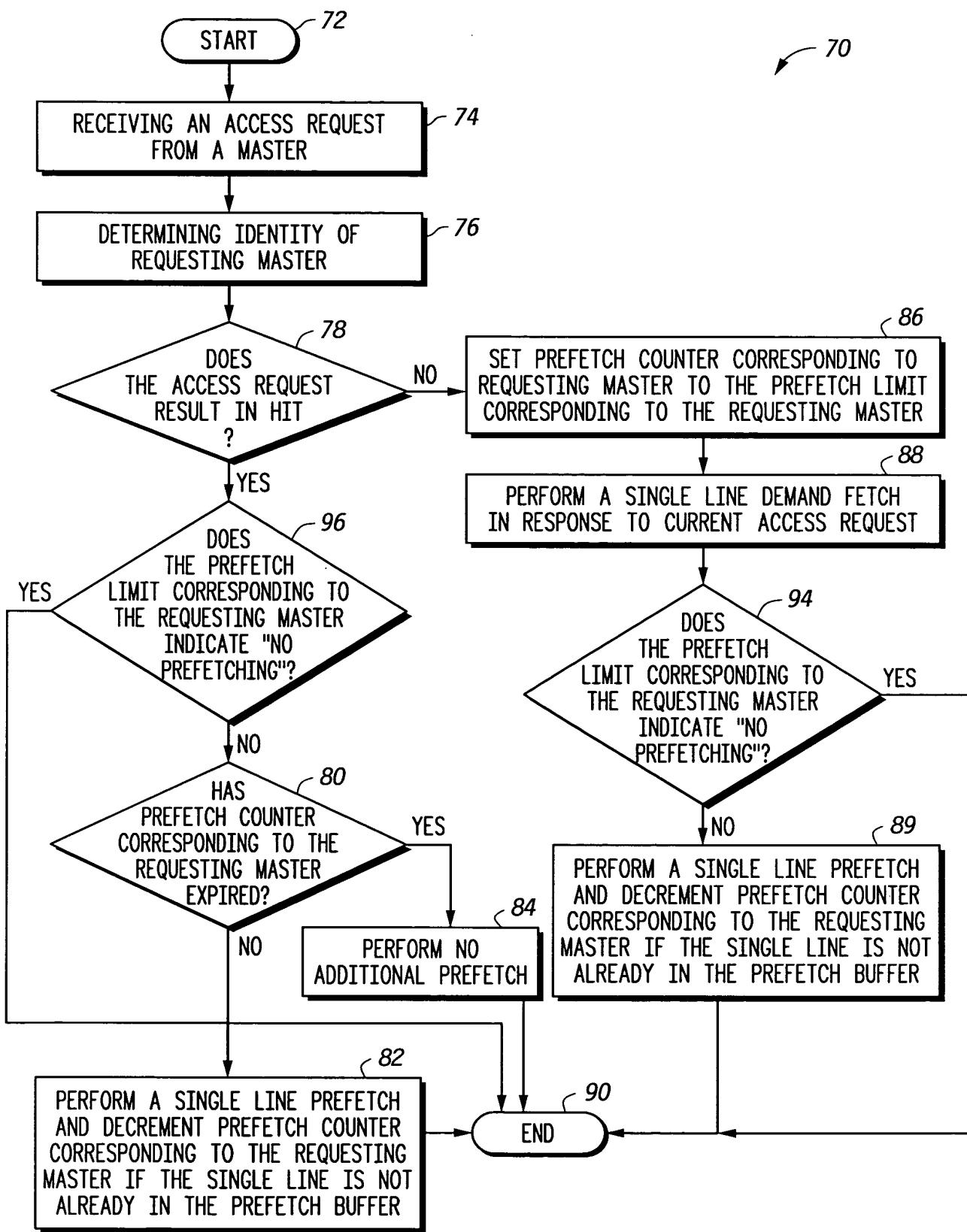


FIG. 5